

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/05492

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C22B9/05 C22B21/06 F27D23/04 B01F3/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C22B F27D B01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 183 402 A (FOSECO INT) 4 June 1986 (1986-06-04) abstract; figures 3,47,8 ---	1-22
Y	US 3 849 119 A (BRUNO M ET AL) 19 November 1974 (1974-11-19) figures 2-4 ---	1, 15, 22
Y	WO 02/22900 A (ALCAN INT LTD ; LAKRONI CARL (CA); BILODEAU JEAN FRANCOIS (CA); KIS) 21 March 2002 (2002-03-21) page 8, line 20 - line 29; figures 4-7 ---	1-22
Y	US 6 060 013 A (BERTRAND JOEL ET AL) 9 May 2000 (2000-05-09) abstract; figures 3,4 --- -/-	1, 15, 22



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 06, 31 July 1995 (1995-07-31) & JP 07 055365 A (HITACHI METALS LTD), 3 March 1995 (1995-03-03) abstract ---	1,15,22
Y	US 3 227 547 A (SZEKELY ANDREW G) 4 January 1966 (1966-01-04) column 3, line 12 - line 43; figures 6-15 column 6 ---	1-22
Y	CA 2 073 706 A (NORANDA INC ;SOC D TECHNOLOGIES DE L ALUMIN (CA)) 14 January 1994 (1994-01-14) figure 7 -----	1,15,22

## INTERNATIONAL SEARCH REPORT

 tional Application No  
 PCT/GB 03/05492

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0183402	A	04-06-1986	AT 36558 T	15-09-1988
			AU 566659 B2	29-10-1987
			AU 5038685 A	05-06-1986
			BR 8506007 A	19-08-1986
			CA 1256694 A1	04-07-1989
			CN 85108571 A ,B	10-05-1986
			DE 3564449 D1	22-09-1988
			EP 0183402 A2	04-06-1986
			ES 8702503 A1	16-03-1987
			IN 167350 A1	13-10-1990
			IN 165597 A1	25-11-1989
			JP 61133332 A	20-06-1986
			NO 854786 A ,B,	30-05-1986
			NZ 214256 A	23-01-1987
			US 4634105 A	06-01-1987
			ZA 8508998 A	27-08-1986
US 3849119	A	19-11-1974	US 3767382 A	23-10-1973
WO 0222900	A	21-03-2002	AU 9354001 A	26-03-2002
			WO 0222900 A2	21-03-2002
			CA 2421725 A1	21-03-2002
			EP 1356130 A2	29-10-2003
			US 2003205854 A1	06-11-2003
			US 2002088307 A1	11-07-2002
US 6060013	A	09-05-2000	AU 714284 B2	23-12-1999
			AU 3853397 A	25-02-1998
			CA 2251230 A1	12-02-1998
			DE 69700963 D1	20-01-2000
			DE 69700963 T2	08-06-2000
			DE 916066 T1	21-10-1999
			EP 0916066 A1	19-05-1999
			WO 9805915 A1	12-02-1998
JP 07055365	A	03-03-1995	NONE	
US 3227547	A	04-01-1966	NONE	
CA 2073706	A	14-01-1994	CA 2073706 A1	14-01-1994